Radio station	Call sig-	R:	nge	Weather Bu-
	nals	Day	Night	reau office
Palm Beach, Fla. Tampa, Fla. Port Arthur, Tex. Galveston, Tex.	WOE	600	1,800	Miami.
	WPD	400	1,000	Tampa.
	WPA	600	1,600	Port Arthur.
	WGV	300	900	Galveston.

For several years the South Puerto Rico Sugar Co., through its radio station at Ensenada (call letters WPR) has been cooperating with the Weather Bureau by sending general calls out to ships for weather reports when a hurricane had been reported or when there were indications of a tropical storm, and by relaying weather reports from ships which could not communicate directly with main land stations. This service has been of inestimable value to forecasters of the Weather Bureau at San Juan and Washington in the issuing of hurricane warnings and advices. The South Puerto Rico Sugar Co. will continue this cooperation and participate in the program by making direct calls for reports from ships in designated zones.

When reports are needed from any zone or from more than one zone, a message will be sent to the appropriate local Weather Bureau official, stating the zones and the times for which observations are desired. The official in charge of the Weather Bureau office will immediately advise the radio operator. The radio operator will then send messages direct to ships in the zone from which reports are desired, requesting that weather observations taken at specified hours be forwarded by radio to the Weather Bureau office at Washington.

As an added effort to provide the best possible service to the people, and to the business and shipping interests, it is planned to provide Weather Bureau officials in charge of stations on the South Atlantic and Gulf coasts with weather reports from ships whenever a hurricane is in progress and there is any probability of the sections in which the stations are located being affected by the storm. Such reports, in addition to the land station observations and the advisory and warning messages issued from Washington, will be helpful to local Weather Bureau officials in giving service.

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SOLAR OBSERVATIONS

SOLAR RADIATION MEASUREMENTS DURING MAY 1933

By IRVING F. HAND, Assistant in Solar Radiation Investigations

For a description of instruments employed and their exposures, the reader is referred to the January 1932, Review, page 26.

Table 1 shows that solar radiation intensities averaged above normal for May at all three stations at which normal incident measurements are made.

Table 2 shows a deficiency in the total solar radiation received on a horizontal surface at Madison, Lincoln, La Jolla, Gainesville and Miami, and an excess at all other stations.

May was unusually cloudy throughout the United States and particularly so along the Atlantic Seaboard. Hence but few turbidity measurements were possible at Washington, and those obtained on May 18, the best day of the month, indicate that even then the sky was rather turbulent.